

K-State Wheat Variety Demonstration Plots  
 Cheyenne County  
 Plot Location: On Road 1, 2.25 mi north of Hwy 36  
 Cooperator: Hingst Farm



Variety		Yield bu/ac	Test Weight lb/bu	Moisture %	Protein %
KS Territory	K-State	59.9	56.2	12.2	10.2
KS Providence	K-State	59.2	56.7	12.2	10.5
WB4422	WestBred	59.0	58.0	12.4	10.6
AG Golden	Agseco	56.6	56.0	11.7	10.2
Amplify SF	Colorado State	54.7	56.3	11.8	10.2
WB4792	WestBred	54.4	58.1	11.9	10.5
WB Grainfield	WestBred	54.0	57.0	11.9	10.4
KS Hamilton	K-State	53.8	56.8	12.3	10.8
KS Dallas	K-State	53.7	54.9	12.5	11.0
LCS Steel AX	Limagrain	52.8	54.8	11.6	10.1
TAM 114	Agseco	50.3	56.1	12.1	10.6
Guardian	Colorado State	49.6	55.2	11.6	10.3
WB4595	WestBred	49.0	57.7	12.4	10.6
LCS Chrome	Limagrain	47.2	56.6	11.4	10.4
Byrd CL+	Colorado State	40.0	55.5	11.4	10.4
Langin	Colorado State	39.6	56.0	12.6	10.8
KS Western Star	K-State	38.0	56.3	11.7	10.4
Avery	Colorado State	32.6	54.8	11.8	10.1
Average		50.1	56.2	12.0	10.5

Drilled: October 12, 2022  
 2" deep into fair moisture  
 70 lbs/ac

Fertility: 30 lbs N + 20 lbs Phos - based on soil tests at drilling, topdress 20 lbs N  
 Herbicide: Ally + Staredown in the spring  
 Fungicide: none

Harvested: August 1, 2023

AX = CoAxium variety, can be treated with Aggressor herbicide  
 CL+ = 2 gene Clearfield variety, can be treated with higher rates of Beyond herbicide  
 SF = varieties with a semi-solid stem, to help prevent egg laying by wheat stem sawfly

Thank you to Hingst Farm for being the wheat plot cooperator!

All yields are adjusted to 13% moisture.

**Overview of the plot:**

- Field is in a wheat-sorghum-fallow rotation with herbicide and tillage ahead of drilling.
- The fall stand establishment was fair, with only a 1 or 2 fall tillers per plant established before cold temperatures.
- Dry conditions in the spring did not allow establishment of many spring tillers.
- Rain started in early May, when wheat was in boot stage.
- A moderate hail event in early May caused wounds on the wheat plants, allowing bacterial infections to become established.
- The wetter-than-normal and cool temperatures created a long grain fill period, resulting in better than expected wheat yields (when compared to expected yields earlier in the spring).
- The plot was lightly hailed again before harvest.

This data is from demonstration plots. It should be used with replicated performance test data for variety selection.  
 Syngenta/AgriPro variety yields are not included in these results (although are included in plot averages), per AgriPro's request.

Please contact Jeanne Falk Jones, K-State Agronomist at (785) 443-3403 or jfalkjones@ksu.edu with questions.

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